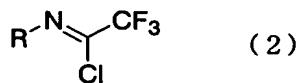


Claims

1. A process for producing an *N*-aryl-2,2,2-trifluoroacetimidoyl chloride represented by Formula (2):

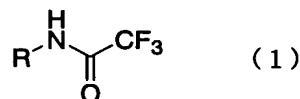
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wherein R is an aryl group optionally having one substituent,

the process comprising the step of reacting in an organic solvent a tertiary amine, a 2,2,2-trifluoro-*N*-arylacetamide represented by Formula (1):

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wherein R is as defined above, and at least one member selected from the group consisting of phosphorus oxychloride and diphenyl chlorophosphate.

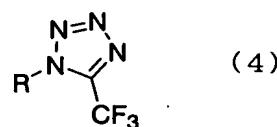
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2. The process according to claim 1, wherein R is a phenyl, methylphenyl, methoxyphenyl, fluorophenyl, chlorophenyl, bromophenyl, iodophenyl, or naphthyl group.

25 3. The process according to claim 1, wherein the tertiary amine is triethylamine.

4. A process for producing a 1-aryl-5-(trifluoromethyl)-1*H*-tetrazole represented by Formula (4):

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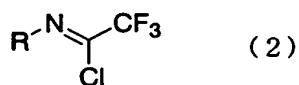


wherein R is an aryl group optionally having one substituent,

the process comprising the step of reacting in an aromatic hydrocarbon solvent, in the presence of an amine salt, an *N*-aryl-2,2,2-trifluoroacetimidoyl chloride represented by

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Formula (2):



wherein R is as defined above, and an azide represented by

5 Formula (3):



wherein M is an alkali metal or alkaline-earth metal, and n is 1 or 2.

10 5. The process according to claim 4, wherein R is a phenyl, methylphenyl, methoxyphenyl, fluorophenyl, chlorophenyl, bromophenyl, iodophenyl, or naphthyl group.

15 6. The process according to claim 4, wherein the azide is sodium azide.

7. The process according to claim 4, wherein the amine salt is triethylamine hydrochloride.

20 8. The process according to claim 4, wherein the aromatic hydrocarbon solvent is at least one member selected from the group consisting of toluene and xylene.